

ABSTRACT

Abstract

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The invention concerns an evaporator, especially for the sugar industry, with at least two heat exchangers (4, 5), into the top of which the medium (M) to be concentrated is loaded and which are heated with steam (D1, D2) with different compositions and/or different pressures in a cross stream, wherein the concentrated medium and the exhaust steam generated, after they come out of the heat exchanger (4, 5), are carried off separately. To produce an evaporator that is simple and inexpensive in design, the invention proposes that the medium (M) to be concentrated be loaded by a medium distribution (7) common to all heat exchangers (4, 5) and the medium leaving the first heat exchanger (4) go directly into the next heat exchanger (5). Only after the medium comes out of the second heat exchanger (5) are the exhaust steam and the medium separated. The steam spaces (12, 18) in the heat exchanger (4, 5) separated from the exhaust steam space (8) are separated from one another by a common dividing wall (19).

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